

D-2973

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT

In re application of:)
 Robert T. Lyons)
)
Serial No. Not yet assigned)
)
Dated: Herewith)
)
For:USE OF ANTIMICROBIAL PEPTIDES)
 AS PRESERVATIVES IN OPHTHALMIC)
 PREPARATIONS, INCLUDING)
 SOLUTIONS, EMULSIONS, AND)
 SUSPENSIONS)
)

ENTRY OF SEQUENCE LISTING

Commissioner for Patents
Washington, DC 20231

Dear Sir:

Attached is the "Sequence Listing" which complies with the requirements of 37 CFR 1.821-1.825, for the above-identified application, in computer readable form (CRF) and paper form. The contents of the paper and computer readable copies are the same and include no new matter.

Respectfully submitted,



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SEQUENCE LISTING

<110> Lynos, Robert T

<120> Use of ANtimicrobial Peptides as Preservatives in Ophthalmic Preparations, Including Solutions, Emulsions, and Suspensions

<130> 2973 ver 2

<140> not known

<141> 2001-05-30

<150> WO 96/25183

<151> 1996-08-22

<160> 14

<170> PatentIn Ver. 2.1

<210> 1

<211> 23

<212> PRT

<213> Xenopus laevis

<300>

<301> Lee et al.,

<302> High-Level Expression of Antimicrobial Peptide Mediated by a Fusion Partner Reinforcing Formation of Inclusion Bodies

<303> Biochem. Biophys. Res. Commun.

<304> 277

<306> 575-580

<307> Sept 21, 2000

<400> 1

Gly Ile Gly Lys Phe Leu His Ser Ala Gly Lys Phe Gly Lys Ala Phe

1

5

10

15

Val Gly Glu Ile Met Lys Ser

20

<210> 2

<211> 23

<212> PRT

<213> Xenopus laevis

<400> 2

Gly Ile Gly Lys Phe Leu His Ser Ala Lys Lys Phe Gly Lys Ala Phe

1

5

10

15

Val Gly Glu Ile Met Asn Ser

20

<210> 3

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (22)

<223> Xaa at position 22 is Lys-amide

<220>

<223> Description of Artificial Sequence: maginin analog

<400> 3

Gly Ile Gly Lys Phe Leu Lys Lys Ala Lys Lys Phe Gly Lys Ala Phe

1

5

10

15

Val Lys Ile Leu Lys Xaa

20

<210> 4

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: maginin analog

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Gly Ile Gly Lys Phe Leu Lys Lys Ala Lys Lys Phe Gly Lys Ala Phe

1

5

10

15

Val Lys Ile Leu Lys Lys

20

<210> 5

<211> 37

<212> PRT
<213> silk moth

<400> 5
Lys Trp Lys Leu Phe Lys Lys Ile Glu Lys Val Gly Gln Asn Ile Arg

1	5	10	15
---	---	----	----

Asp Gly Ile Ile Lys Ala Gly Pro Ala Val Ala Val Val Gly Gln Ala
20 25 30

Thr Gln Ile Ala Lys

35

<210> 6
<211> 36
<212> PRT
<213> silk moth

<400> 6
Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Met Gly Arg Asn Ile Arg

1	5	10	15
---	---	----	----

Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly Glu Ala
20 25 30

Lys Ala Leu Gly

35

<210> 7
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: analog of
cecropin B

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Met Pro Arg Trp Arg Leu Phe Arg Arg Ile Asp Arg Val Gly Lys Gln

1	5	10	15
---	---	----	----

Ile Lys Gln Gly Ile Leu Arg Ala Gly Pro Ala Ile Ala Leu Val Gly

20

25

30

Asp Ala Arg Ala Val Gly

35

<210> 8

<211> 30

<212> PRT

<213> human

<400> 8

Ala Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr

1

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Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys

20

25

30

<210> 9

<211> 29

<212> PRT

<213> human

<400> 9

Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr Gly

1

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Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys

20

25

<210> 10

<211> 30

<212> PRT

<213> human

<400> 10

Asp Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr

1

5

10

15

Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys

20

25

30

<210> 11
<211> 33
<212> PRT
<213> rabbit

<400> 11
Val Val Cys Ala Cys Arg Arg Ala Leu Cys Leu Pro Arg Glu Arg Arg
1 5 10 15
Ala Gly Phe Cys Arg Ile Arg Gly Arg Ile His Pro Leu Cys Cys Arg
20 25 30
Arg

<210> 12
<211> 11
<212> PRT
<213> cow

<400> 12
Arg Leu Cys Arg Val Val Ile Arg Val Cys Arg
1 5 10

<210> 13
<211> 26
<212> PRT
<213> Artificial Sequence

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<221> PEPTIDE
<222> (26)
<223> Xaa at position 26 is Ser-amide

<220>
<223> Description of Artificial Sequence: Hybrid
antimicrobial peptide

<400> 13
Lys Trp Lys Leu Phe Lys Lys Ile Gly Ile Gly Ala Val Leu Lys Val
1 5 10 15
Leu Thr Thr Gly Leu Pro Ala Leu Ile Xaa
20 25

<210> 14
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<221> PEPTIDE
<222> (16)
<223> Xaa at position 16 is Leu-amide

<220>
<223> Description of Artificial Sequence: Hybrid antimicrobial peptide

<400> 14
Lys Trp Lys Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Xaa

1	5	10	15
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